

Exhibit 9



PubMed

Nucleotide

Protein

Genome

Structure

PopSet

Taxonomy

OMIM

Boo

Search  for

☐ 1: NM\_005226. Homo sapiens endo...  
[gi:4885194]

Related Sequences, OMIM, Protein, PubMed, Taxonomy,  
LinkOut

LOCUS NM\_005226 1137 bp mRNA linear PRI 16-NOV-2000  
DEFINITION Homo sapiens endothelial differentiation, sphingolipid  
G-protein-coupled receptor, 3 (EDG3), mRNA.  
ACCESSION NM\_005226  
VERSION NM\_005226.1 GI:4885194  
KEYWORDS .  
SOURCE human.  
ORGANISM Homo sapiens  
Eukaryota; Metazoa; Chordata; Craniata; Vertebrata; Euteleostomi;  
Mammalia; Eutheria; Primates; Catarrhini; Hominidae; Homo.  
REFERENCE 1 (bases 1 to 1137)  
AUTHORS Yamaguchi, F., Tokuda, M., Hatase, O. and Brenner, S.  
TITLE Molecular cloning of the novel human G protein-coupled receptor  
(GPCR) gene mapped on chromosome 9  
JOURNAL Biochem. Biophys. Res. Commun. 227 (2), 608-614 (1996)  
MEDLINE 97032811  
PUBMED 8778560  
REFERENCE 2 (bases 1 to 1137)  
AUTHORS An, S., Bleu, T., Huang, W., Hallmark, O.G., Coughlin, S.R. and  
Goetzl, E.J.  
TITLE Identification of cDNAs encoding two G protein-coupled receptors  
for lysosphingolipids  
JOURNAL FEBS Lett. 417 (3), 279-282 (1997)  
MEDLINE 98072391  
PUBMED 9809733  
REFERENCE 3 (bases 1 to 1137)  
AUTHORS Ancellin, N. and Hla, T.  
TITLE Differential pharmacological properties and signal transduction of  
the sphingosine 1-phosphate receptors EDG-1, EDG-3, and EDG-5  
JOURNAL J Biol. Chem. 274 (27), 18997-19002 (1999)  
MEDLINE 99315836  
PUBMED 10383399  
REFERENCE 4 (bases 1 to 1137)  
AUTHORS Spiegel, S.  
TITLE Sphingosine 1-phosphate: a ligand for the EDG-1 family of  
G-protein-coupled receptors  
JOURNAL Ann. N. Y. Acad. Sci. 905, 54-60 (2000)  
MEDLINE 20278382  
PUBMED 10818441  
REFERENCE 5 (bases 1 to 1137)  
AUTHORS Hla, T., Lee, M.J., Ancellin, N., Thangada, S., Liu, C.H., Kluk, M.,  
Cae, S.S. and Wu, M.T.  
TITLE Sphingosine-1-phosphate signaling via the EDG-1 family of  
G-protein-coupled receptors  
JOURNAL Ann. N. Y. Acad. Sci. 905, 16-24 (2000)

[http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=nucleotide&list\\_uids=4...](http://www.ncbi.nlm.nih.gov/entrez/query.fcgi?cmd=Retrieve&db=nucleotide&list_uids=4...) 4/28/2002

## NCBI Sequence Viewer

MEDLINE 2078379  
 PUBMED 10318438  
 REFERENCE 6 (bases 1 to 1137)  
 AUTHORS Himmel,H.M., Meyer Zu Heringdorf,D., Graf,E., Dobrev,D.,  
 Kortner,A., Schuler,S., Jakobs,K.H. and Ravens,U.  
 TITLE Evidence for Edg-3 receptor-mediated activation of I(K.ACh) by  
 sphingosine-1-phosphate in human atrial cardiomyocytes  
 JOURNAL Mol. Pharmacol. 58 (2), 449-454 (2000)  
 MEDLINE 20368609  
 PUBMED 10908314  
 COMMENT REVIEWED REFSEQ: This record has been curated by NCBI staff. The  
 reference sequence was derived from X83864.1.  
 Summary: This gene encodes a member of the family I of the G  
 protein-coupled receptors, as well as the EDG family of proteins.  
 This protein has been identified as a functional receptor for  
 sphingosine 1-phosphate and likely contributes to the regulation of  
 angiogenesis and vascular endothelial cell function.

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 FP 121 ctccaccg tgctctctt ggtcatctgc agcttcacg tcttgagaa cctgatggtt  
 181 ttgttgcca tctggaaaa caataattt cacaaccgca tgtactttt cattggcaac  
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## NCBI Sequence Viewer

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EDG-3  
RP  
antisense

Revised: October 24, 2001.

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